

## CARCO ES-370 CKT Spray Gun

The ES-370 CKT Automatic Spray Gun is a production spray gun designed to apply a wide range of marking fluids, including Carco pigmented and dye type marking fluids.

### CONNECTIONS:

- 1) Connect a hose from the air supply to the air inlet fitting. (1/4" S.P.T. 60-80 psi)
- 2) Connect a hose from the low pressure air supply to the atomizing air inlet.  
(1/4" S.P.T. 3-15 psi)
- 3) Connect the fluid supply to the fluid inlet. (1/4" S.P.T.) **IMPORTANT:** The fluid inlet is on the right side, and the needle is visible in the inlet. **Do not** connect the fluid to the air inlet.  
If a remote, gravity feed reservoir is used, be sure to mount the reservoir at least 12" above the spray gun.
- 4) Tighten all hose connections securely.

### OPERATIONS:

This spray gun operates by mixing air and fluid, creating an atomized mist emitted from the tip. The basic size and intensity of the spray mark is determined by the following:

- a) Type of marking fluid, viscosity and color.
- b) Distance from the part being marked.
- c) Duration of the spray
- d) Fluid / Air ratio

Establishing the proper fluid / air is best done by totally closing the fluid adjusting knob. By slowly opening the valve, the desired pattern can be established. Once determined, note the dial settings for future reference.

### CLEANING:

Basic cleaning of the spray gun can be accomplished by flushing the gun with clean solvent. Use the solvent that is specific to the marking fluid used in the gun. **Do not** use caustic or alkaline solutions for cleaning. **Do not** leave the entire gun immersed in the solvent. Dirty and clogged air caps and tips should be cleaned by removing and soaking in solvent. Use plant air to blow them clean after removal from the solvent.

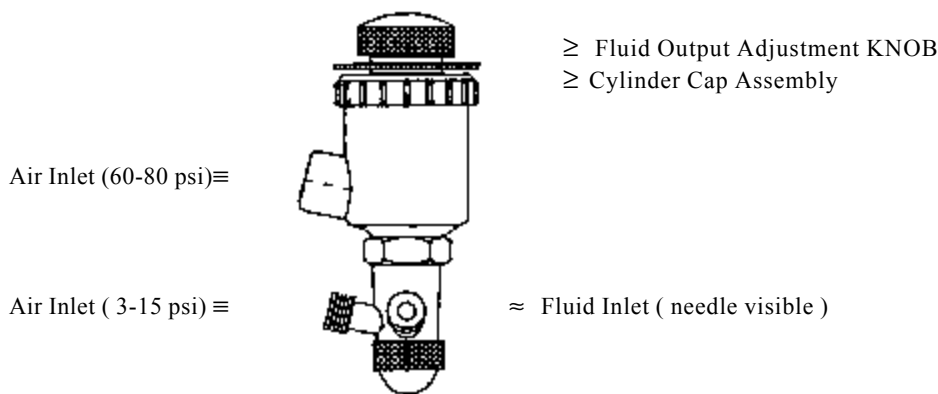
### TROUBLESHOOTING AND DISASSEMBLY:

Sputter spray can be caused by clogged marking fluid or a cracked tip. Try opening the fluid knob all the way to maximize the output. If this does not improve performance, the air cap and tip should be checked.

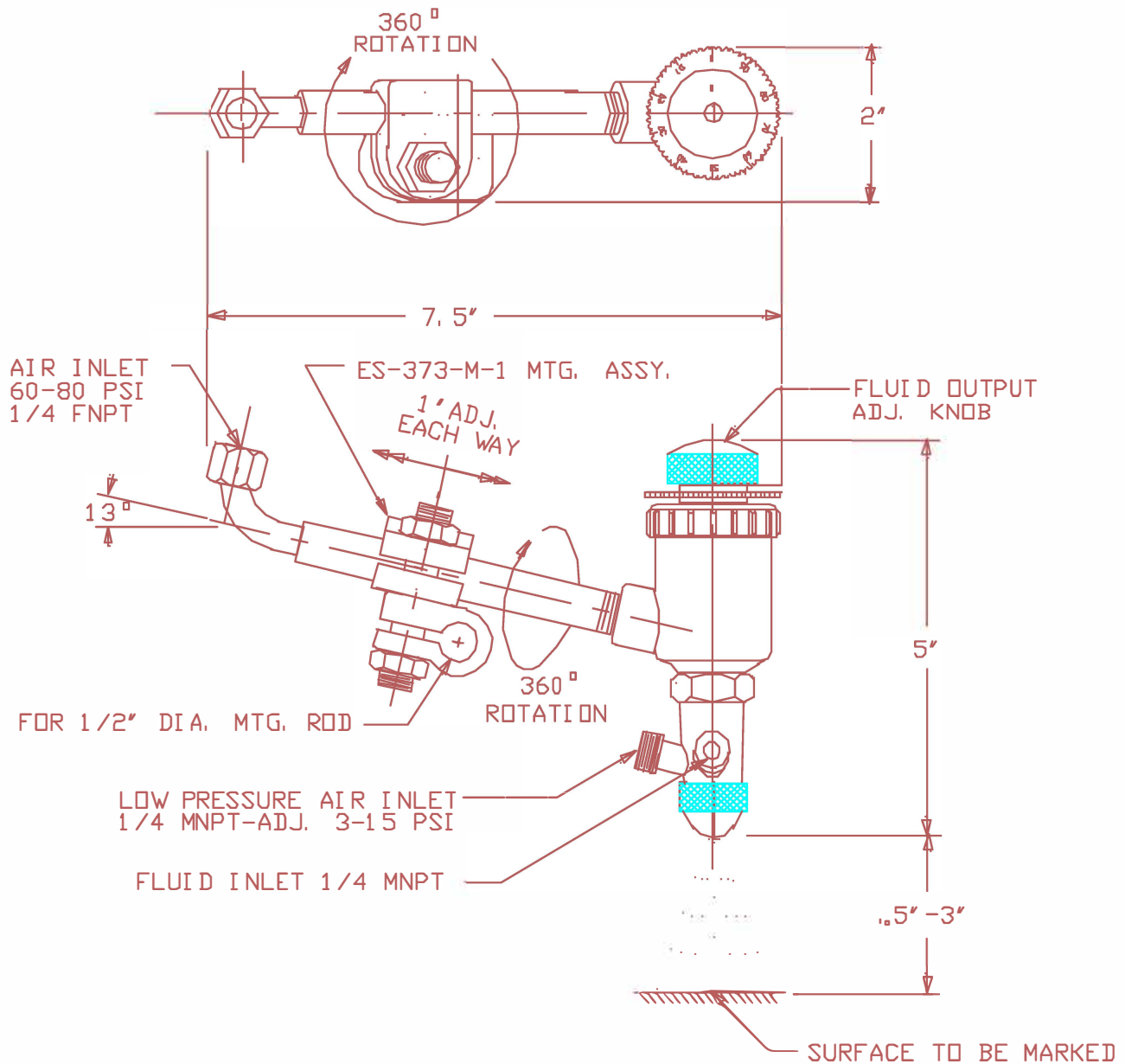
### IMPORTANT:

The ES-370 spray gun has an internal spring that can damage the tip during disassembly. To prevent cracking the tip, remove the cylinder cap assembly before removing the air cap nut and tip. Loosen the piston assembly by pulling the needle up about one half inch. Before re-installing the cylinder cap assembly, turn the fluid adjustment knob counter-clockwise until it stops. This will prevent tip damage, and ease installation.

Air flowing back into the reservoir indicates the needle packing is worn and should be replaced. At this point it is recommended that an **ES-370 Repair Kit**,



# ES-370-CKT-0 TRACING TEMPLET



CARCO INC. 313-925-9000  
DETROIT MICH. 48213

MARKING DEVICES and SPECIAL INKS

TRACING TEMPLET

DRAWN BY M. E.	DATE 5-23-18	ES-370-CKT-0
CHK'D	SCALE 1/2	

# ES-370 REPAIR KIT

CONSISTS OF

QTY.

- 1 ES-370-T-0 TIP
- 1 ES-370-C-0 AIR CAP
- 1 ES-370-AP-3-P NEEDLE PACKING ASSY
- 1 ES-377-N-1 NEEDLE

ES-370-AP-7  
Cylinder Cap  
Assembly

ES-377-S-6  
Piston Spring

ES-377-N-1  
Needle

ES-370-AP-6  
Piston Assembly

ES-377-B-4  
Body Shell

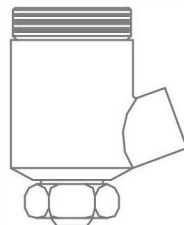
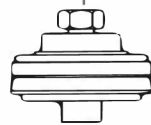
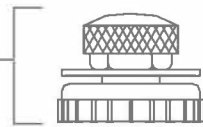
ES-370-AP-3-P  
Needle Packing  
Assembly

ES-377-C-3-A  
Fluid Body

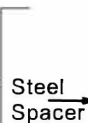
ES-370-T-0 or  
1 or 2  
Tip #0 or #1  
or #2

ES-370-C-0 or  
1 or 2  
Air Cap Round  
#0 or #1 or #2

ES-370-AN  
Air Cap Nut



Air  
Inlet



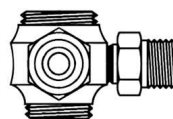
Packing Housing

Packings

ES-370-AP-3P Needle Packing Assy

Steel  
Spacer

Atomization Air  
Inlet



Fluid Inlet



## PARTS LIST & ASSEMBLY D'W'G

313-925-9000

CARCO INC.

10333 SHOEMAKER  
DETROIT MICH. 48213

MARKING DEVICES and SPECIAL INKS

DRAWN BY

CO

DATE

2-17-22

DRAWING NO.

SCALE  
approx. 1/2 scale

ES-370-C